

# ***RF Exposure Report***

## ***FCC ID: 2ABQOAMK-K95-02B***

### **1. GENERAL INFORMATION**

#### **1.1 GENERAL DESCRIPTION OF EUT**

|                                   |                                                                               |
|-----------------------------------|-------------------------------------------------------------------------------|
| <b>Equipment</b>                  | Cycling Bluetooth Speaker                                                     |
| <b>Model Name</b>                 | AMK-K95-02B                                                                   |
| <b>Additional Model Number(s)</b> | N/A                                                                           |
| <b>Model Difference</b>           | N/A                                                                           |
| <b>Frequency Range</b>            | Bluetooth V2.1+EDR: 2402~2480 MHz                                             |
| <b>Modulation Type</b>            | Bluetooth: GFSK/ $\pi/4$ -DQPSK/8-DPSK                                        |
| <b>RF Output Power</b>            | GFSK: 4.765 dBm<br>8-DPSK: 3.514 dBm                                          |
| <b>Antenna Type</b>               | PCB Antenna (Gain: 0 dBi)                                                     |
| <b>Power Source</b>               | DC Powered by host system or Battery .                                        |
| <b>Power Rating</b>               | DC 5V from USB interference.<br>DC 3.7V from Battery.                         |
| <b>Remark</b>                     | More details EUT technical specifications, please refer to the User's Manual. |

## 2. RF EXPOSURE INFORMATION

### SAR Test Exclusion Calculations

#### 2.1 FCC: According to KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies v06.

##### (1) Clause 4.3: General SAR test reduction and exclusion guidance

##### Sub clause 4.31: Standalone SAR test exclusion considerations

1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6GHz at test separation distances  $\leq 50$  mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation, mm})] \cdot [\sqrt{f_{\text{(GHz)}}}] \leq 3.0$  for 1-g SAR

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation, mm})] \cdot [\sqrt{f_{\text{(GHz)}}}] \leq 7.5.0$  for 10-g SAR

#### 2.2

##### Calculation:

| Bluetooth Mode  |                       |                |                              |               |               |                   |                 |
|-----------------|-----------------------|----------------|------------------------------|---------------|---------------|-------------------|-----------------|
| GFSK(1Mbps)     |                       |                |                              |               |               |                   |                 |
| Frequency (MHz) | Conducted Power (dBm) | Ant Gain (dBi) | Turn-up Power Tolerance (dB) | TX Power (mW) | Distance (mm) | Calculation Value | Threshold Value |
| 2402            | 4.617                 | 0              | $\pm 1$                      | 3.645         | 5             | 1.130             | 3.0             |
| 2441            | 4.765                 | 0              | $\pm 1$                      | 3.771         | 5             | 1.178             | 3.0             |
| 2480            | 4.650                 | 0              | $\pm 1$                      | 3.673         | 5             | 1.157             | 3.0             |
| 8-DPSK(3Mbps)   |                       |                |                              |               |               |                   |                 |
| Frequency (MHz) | Conducted Power (dBm) | Ant Gain (dBi) | Turn-up Power Tolerance (dB) | TX Power (mW) | Distance (mm) | Calculation Value | Threshold Value |
| 2402            | 3.351                 | 0              | $\pm 1$                      | 2.723         | 5             | 0.844             | 3.0             |
| 2441            | 3.514                 | 0              | $\pm 1$                      | 2.827         | 5             | 0.884             | 3.0             |
| 2480            | 3.369                 | 0              | $\pm 1$                      | 2.735         | 5             | 0.861             | 3.0             |

So standalone SAR measurements are not required.

\*\*\*\*\*END OF REPORT\*\*\*\*\*